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Dec 6/1032
Docket No.: 07560-00009-US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Emil M. Orozco, Jr., et al.

Application No.: 10/030884

Group Art Unit: 1642

Filed: October 25, 2001

Examiner: Not Yet Assigned

For: AUXIN TRANSPORT PROTEINS

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Dear Sir:

In accordance with 37 CFR 1.97, Applicants hereby make of record the following documents. A PTO Form SB/08 and a full copy of each of these documents accompanies this statement.

Some of the listed documents were cited in an International Search Report issued January 16, 2001, during the prosecution of international application no. PCT/US00/12061, which corresponds to the above referenced application. A copy of the International Search Report is enclosed as well.

This statement is not to be interpreted as a representation that the cited documents are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any document herein be construed *per se* as a representation that such document is prior art. Moreover, Applicants understand the Examiner will make an independent evaluation of the cited documents.



Application No. (if known): 10/030884

Attorney Docket No.: 07560-00009-US

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As this statement is filed before the mailing of a first Office Action on the merits, no fee is believed due. If the undersigned is mistaken, however, please charge any fee due to Deposit Account No. 03-2775.

Respectfully submitted,

By Christine M. Hansen

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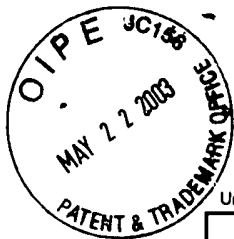
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| | | | | Application Number | 10/030884 |
| | | | | Filing Date | October 25, 2001 |
| | | | | First Named Inventor | Emil M. Orozco, Jr. |
| | | | | Art Unit | 1642 |
| | | | | Examiner Name | Not Yet Assigned |
| Sheet | 1 | of | 3 | Attorney Docket Number | 07560-00009-US |

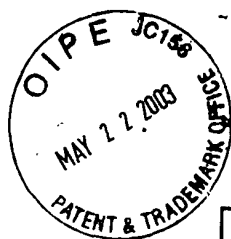
| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|--------------------------|--|--------------------------------|--|--|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | |
| | AA | 4,945,050-A1 | 07-31-1990 | Sanford et al. | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|--------------------------|---|--|--------------------------------|--|--|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | BA | WO-99/63092 | | 12-09-1999 | Whitehead Institute for Biomedical Research | |
| | BB | EP-0 814 161-A1 | | 12-29-1997 | Max-Planck-Gesellschaft zur Forderung | |
| | BC | EP-0 242 236-B2 | | 08-21-1996 | Plant Genetic Systems N.V. | |

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| | | First Named Inventor | Emil M. Orozco, Jr. | | |
| | | Art Unit | 1642 | | |
| | | Examiner Name | Not Yet Assigned | | |
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| OTHER ART - NON PATENT LITERATURE DOCUMENTS | | | |
|---|-----------------------|--|----------------|
| Examiner Initials | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | CA | National Center for Biotechnology Information General Identifier No. 7489524, 4-6-00, Probable auxin transport protein-rice | |
| | CB | National Center for Biotechnology Information General Identifier No. 5902405, 09-16-99, Auxin Transport Protein [<i>Arabidopsis Thaliana</i>] | |
| | CC | National Center for Biotechnology Information General Identifier No. 5817301, 09-02-99, Auxin Transport Protein [<i>Arabidopsis Thaliana</i>] | |
| | CD | Rujin Chen et al., PNAS, 95:15112-15117, 1998, The <i>Arabidopsis Thaliana</i> AGRAVITROPIC 1 Gene Encodes a Component of the Polar-Auxin-Transport Efflux Carrier | |
| | CE | Desmond G. Higgins et al., Cabios Comm., (IRL Press), vol. 5(2):151-153, 1989, Fast and Sensitive Multiple Sequence Alignments On a Microcomputer | |
| | CF | Stephen F. Altschul et al., J. Mol. Biol., vol. 215:403-410, 1990, Basic Local Alignment Search Tool | |
| | CG | Warren Gish et al., Nature Genetics, vol. 3:266-272, 1993, Identification of Protein Coding Regions by Database Similarity Search | |
| | CH | Mark D. Adams et al., Science vol. 252:1651-1656, 1991, Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project | |
| | CI | T. M. Klein et al., Nature, vol. 327:70-73, 1987, High-Velocity Microprojectiles for Delivering Nucleic Acids Into Living Cells | |
| | CJ | Joan T. Odell et al., Nature, vol. 313:810-812, 1985, Identification of DNA Sequences Required for Activity of the Cauliflower Mosaic Virus 35S Promoter | |
| | CK | Embl Sequence Database Library Accession No.: 081215, 11-01-98, C. Luschnig, et al., Auxin Transport Protein REH1 | |
| | CL | Christian Luschnig et al., Genes & Dev., vol. 12(14):2175-2187, 1998, EIR1, A Root-Specific Protein Involved in Auxin Transport, is Required for Gravitropism in <i>Arabidopsis Thaliana</i> | |
| | CM | Etienne Schwob et al., Plant J., vol. 4(3):423-432, 1993, Molecular Analysis of Three Maize 22 kDa Auxin-Binding Protein Genes -Transient Promoter Expression and Regulatory Regions | |
| | CN | Rolf Zettl et al., PNAS, vol. 89:480-484, 1992, 5'-Azido-[3,6-3H2]-1-Naphthylphthalamic Acid, a Photoactivatable Probe for Naphthylphthalamic Acid Receptor Proteins From Higher Plants: Identification of a 23-kDa Protein From Maize Coleoptile Plasma Membranes | |
| | CO | Leo Galweiler et al., Science, vol. 282:2226-2230, 1998, Regulation of Polar Auxin Transport by AtPIN1 in <i>Arabidopsis</i> Vascular Tissue | |
| | CP | Malcolm J. Bennett et al., Science, vol. 273:948-950, 1996, <i>Arabidopsis</i> AUX1 Gene: A Permease-Like Regulator of Root Gravitropism | |
| | CQ | National Center for Biotechnology Information General Identifier No. 3377509, 08-03-98, Auxin Transport Protein REH1 [<i>Oryza Sativa</i>] | |
| | CR | National Center for Biotechnology Information General Identifier No. 3377507, 08-03-98, Auxin Transport Protein EIR1 [<i>Arabidopsis Thaliana</i>] | |
| | CS | National Center for Biotechnology Information General Identifier No. 4151319, 01-13-99, Putative Auxin Efflux Carrier Protein; AtPIN1 [<i>Arabidopsis Thaliana</i>] | |
| | CT | National Center for Biotechnology Information General Identifier No. 3785972, 10-23-98, Putative Auxin Transport Protein [<i>Arabidopsis Thaliana</i>] | |
| | CU | X. Lin et al., Nature, vol. 402:761-768, Dec. 16, 1999, Sequence and Analysis of Chromosome 2 of the Plant <i>Arabidopsis Thaliana</i> | |
| | CV | Michael E. Fromm et al., Biotechnology, vol. 8:833-839, 1990, Inheritance and Expression of Chimeric Genes in the Progeny of Transgenic Maize Plants | |

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| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|



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| | | | | Examiner Name | Not Yet Assigned |
| Sheet | 3 | of | 3 | Attorney Docket Number | 07560-00009-US |

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|----|--|--|
| CW | Jeff J. Doyle et al., J. Biol. Chem., vol. 261(20):9228-9238, 1986, The Glycosylated Seed Storage Proteins of <i>Glycine Max</i> and <i>Phaseolus Vulgaris</i> | |
| CX | Linda Gritz et al., Gene, vol. 25:179-188, 1983, Plasmid-Encoded Hygromycin B Resistance: The Sequence of Hygromycin B Phosphotransferase Gene and Its Expression in <i>Escherichia Coli</i> and <i>Saccharomyces Cerevisiae</i> | |
| CY | Alan H. Rosenberg et al., Gene, vol. 56:125-135, Vectors for Selective Expression of Cloned DNAs by T7 RNA Polymerase | |
| CZ | F. William Studier et al., J. Mol. Biol., vol. 189:113-130, 1986, Use of Bacteriophage T7 RNA Polymerase To Direct Selective High-Level Expression of Cloned Genes | |
| DA | Chu Chih-Ching et al., Scientia Sinica, vol. 18(5):659-668, 1975, Establishment of an Efficient Medium for Anther Culture of Rice Through Comparative Experiments on the Nitrogen Sources | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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